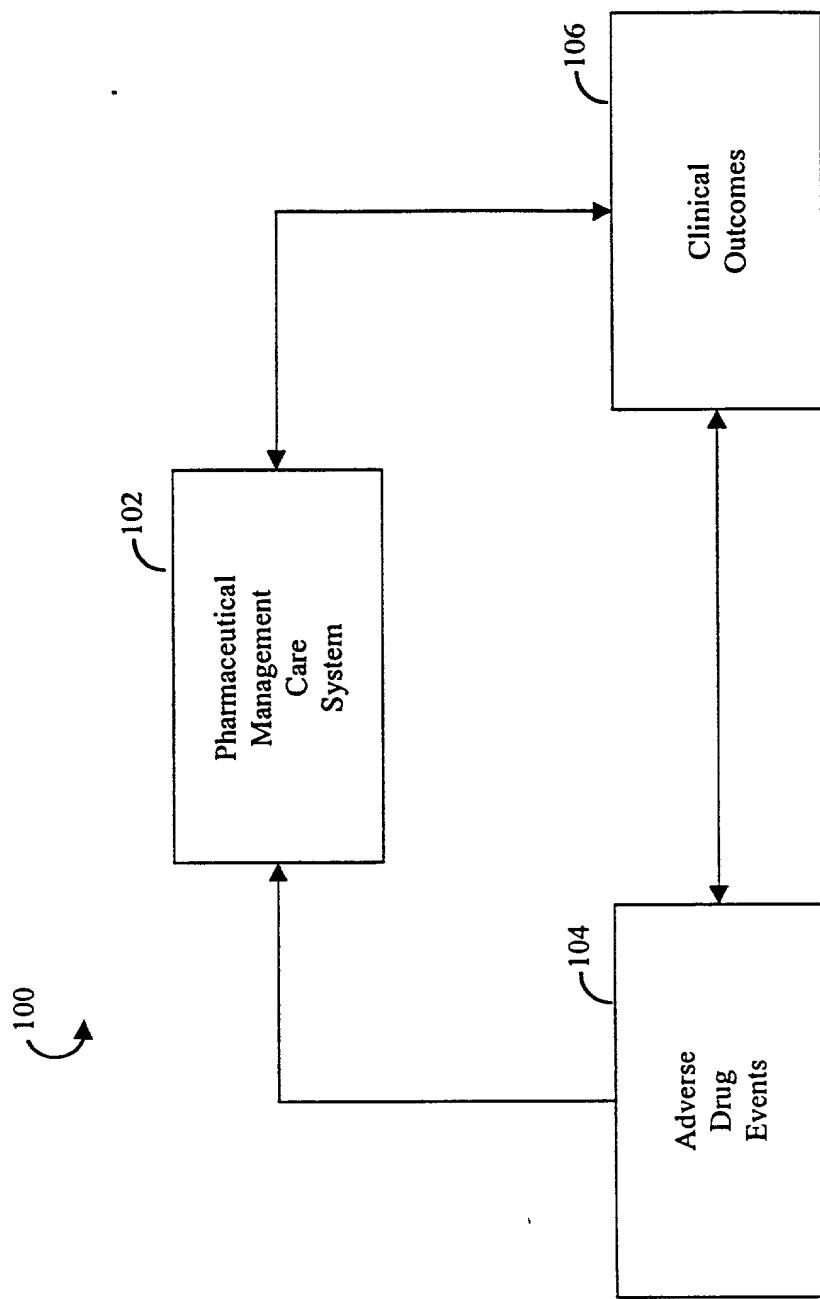


Figure 1



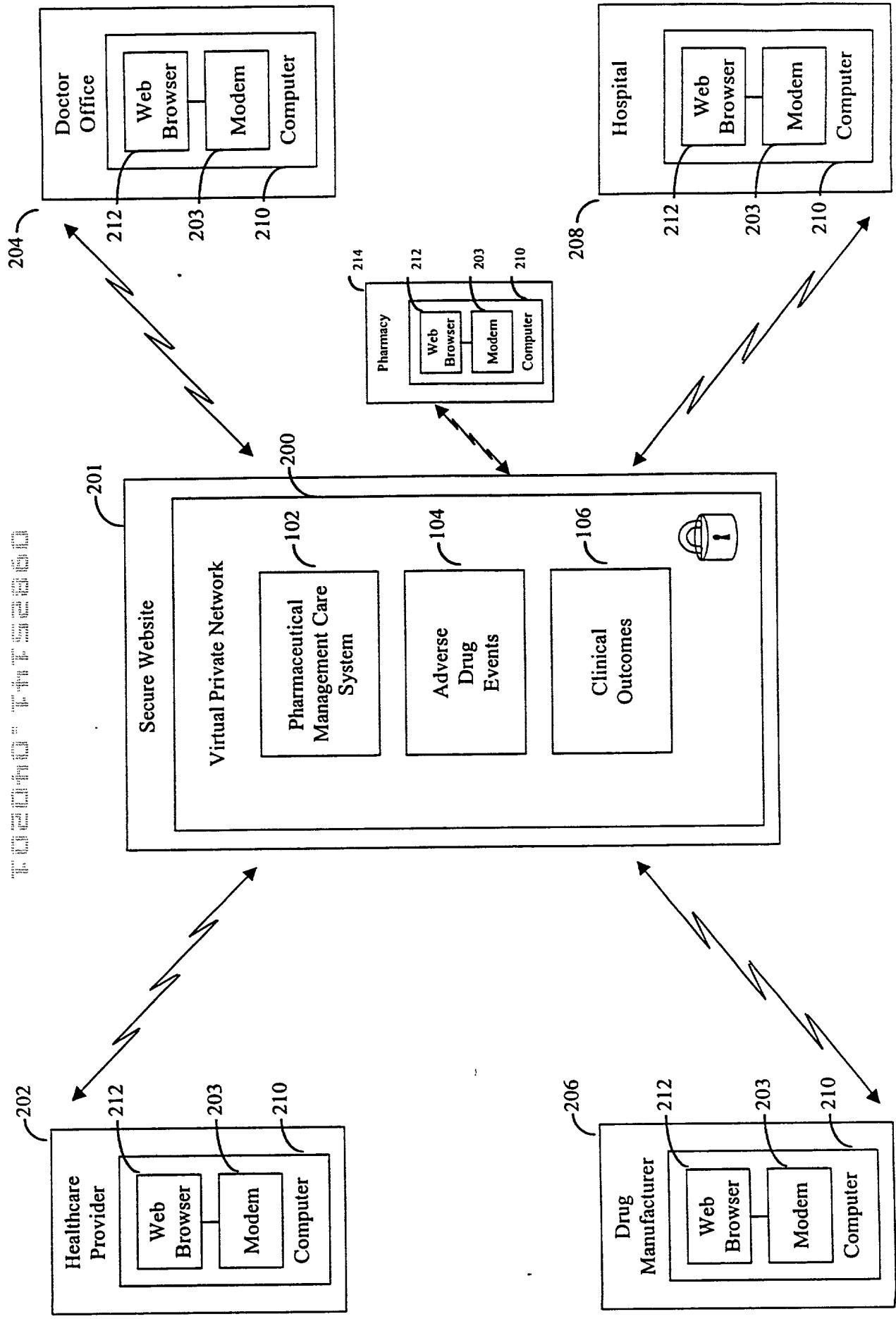


Figure 2

Figure 3

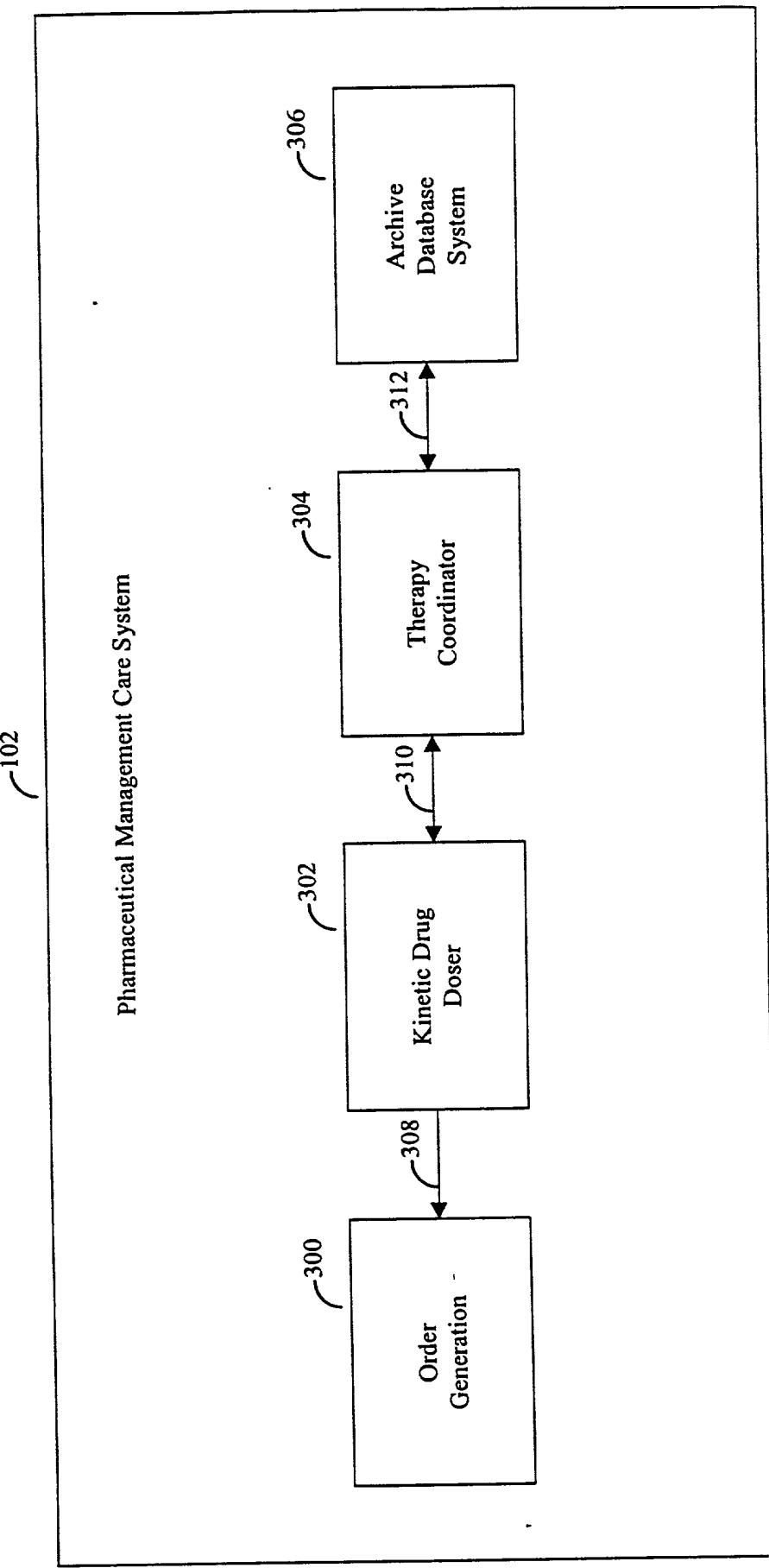
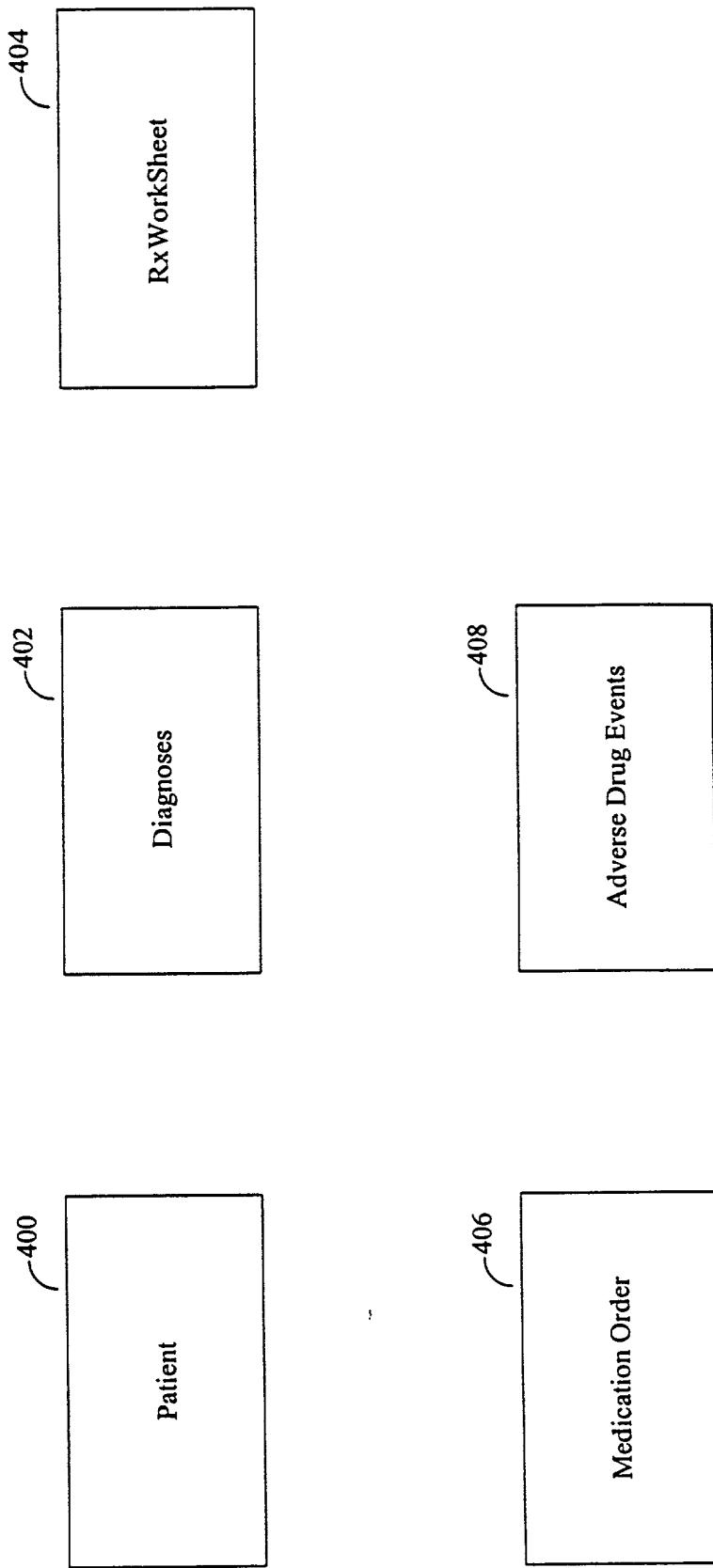


Figure 4



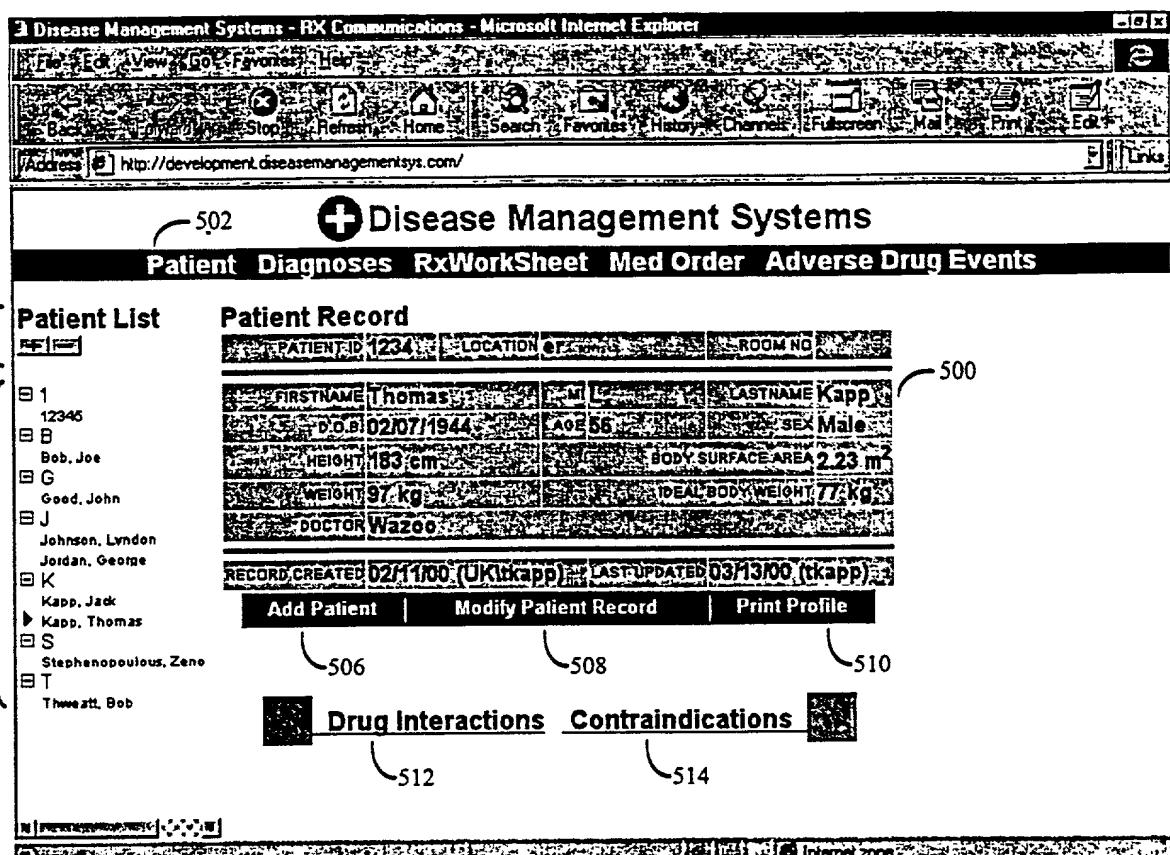


Figure 5A

518

502 **Disease Management Systems**

Patient Diagnoses RxWorkSheet Med Order Adverse Drug Events

Patient List		Patient Record	
516	PATIENT ID: 333 LOCATION: 1000 ROOM NO: 1000	FIRSTNAME: Wally MI: G LASTNAME: Balloo	526
	B.D.: 03/23/1954 AGE: 46 SEX: Male	HEIGHT: 183 cm. ASER BODY SURFACE AREA: 1.89 m ²	
	WEIGHT: 70 kg IDEAL BODY WEIGHT: 77 kg	DOCTOR: Jones	
520	RECORD CREATED: 03/23/00 (tkapp) LAST UPDATED: 03/23/00 (tkapp)	DRUG ALERGIES: AMOXICILLIN	524
522	506	508	510
	Add Patient	Modify Patient Record	Print Profile
	512	514	
	Drug Interactions Contraindications		

Figure 5B

606

The screenshot shows a Microsoft Internet Explorer window with the title bar "Disease Management Systems - RX Communications - Microsoft Internet Explorer". The menu bar includes "File", "Edit", "View", "Go", "Favorites", and "Help". The toolbar contains icons for Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Channels, Fullscreen, Mail, Print, and ECR. The address bar shows the URL "http://development.diseasemanagementsys.com/". Below the address bar is a navigation bar with links for "Home", "Search", "Favorites", "History", "Channels", "Fullscreen", "Mail", "Print", and "ECR". The main content area has a header with a plus sign icon and the text "Disease Management Systems". Below the header is a menu bar with "Patient", "Diagnoses", "RxWorkSheet", "Med Order", and "Adverse Drug Events". On the left, there is a "Patient List" section with two entries: "B Balloo, Wally" and "J Jones, Robert". A bracket labeled "602" groups these two entries. To the right of the list is a "Modify Patient Record" form. The form fields include: PATIENT ID (333), LOCATION (empty), ROOM NO (empty). Under "Personal Information": FIRST (Wally), MI (G), LAST (Balloo); D.O.B. (03/23/1954), SEX (Male), AGE (40). Under "Physical Characteristics": HEIGHT (183), WEIGHT (70), IDEAL BODY WEIGHT (171). Under "Medical Information": DOCTOR (Jones). At the bottom are buttons for "Save Changes", "Cancel Changes", and "Record Drug Allergy". A bracket labeled "604" is positioned near the bottom right of the form.

Patient List Modify Patient Record

PATIENT ID	333	LOCATION		ROOM NO	
B ► Balloo, Wally					
J Jones, Robert					

FIRST	Wally	MI	G	LAST	Balloo
D.O.B.	03/23/1954	SEX	Male	AGE	40
HEIGHT	183	IN	CM	IDEAL BODY WEIGHT	171
WEIGHT	70	LB	KG	DOCTOR	Jones

604

Figure 6

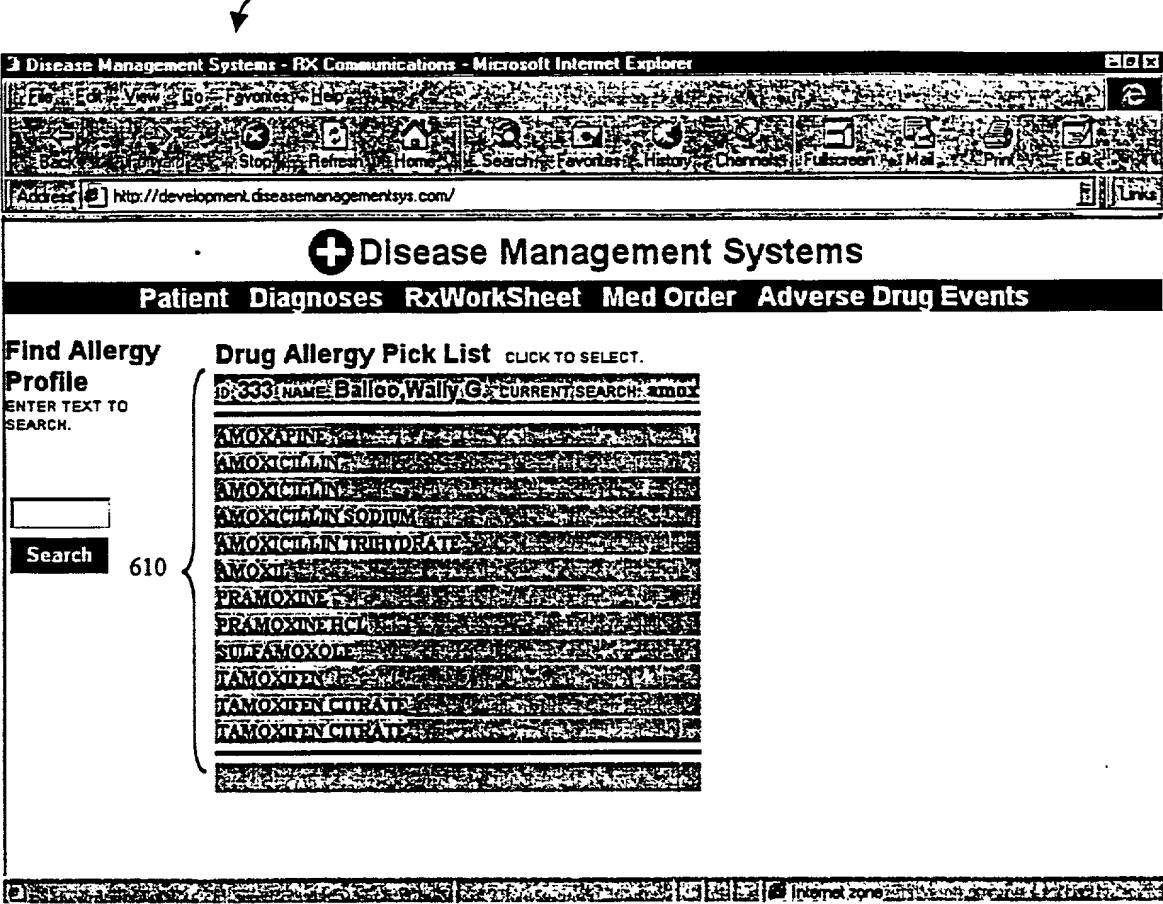


Figure 7

600a

Patient Profile - Disease Management Systems - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen

Address http://development.diseasemanagementsys.com/patient/profile.cfm Links

Patient Profile

NAME: Thomas L Kapp SEX: Male AGE: 56
ID: 1234 LOCATION: south wing ROOM: 234s
ATTENDING DR: Wazoo
RECORD CREATED: 02/11/00 LAST UPDATED: 03/14/00

CURRENT MEDICAL CONDITIONS (COUNT: 2) DATE ADDED OPERATOR ID

ANGINA PECTORIS, CHRONIC	03/14/00	tkapp
DIABETES MELLITUS	03/13/00	tkapp

CURRENT MEDICATIONS - INGREDIENTS (COUNT: 3) DATE ADDED OPERATOR ID

Done	Internet zone
------	---------------

Figure 8

600b

Patient Profile - Disease Management Systems - Microsoft Internet Explorer

File Edit View Favorites Help

Address http://development.diseasemanagementsys.com/patient/profile.cfm

DIABETES MELLITUS	03/13/00	tkapp	
CURRENT MEDICATIONS- INGREDIENTS	(COUNT: 3)	DATE ADDED	OPERATOR ID
NORVASC 10MG TABLET getmed.advisory	03/14/00	tkapp	
XANAX 2MG TABLET getmed.advisory	03/13/00	tkapp	
LASIX 10MG/ML SOLUTION 2000-03-24 00:00:00 getmed.advisory	03/14/00	tkapp	
CONTRAINDICATION WARNINGS	(COUNT: 0)		
DRUG INTERACTION WARNINGS	(COUNT: 0)		

[Done] [Help] [Search] [Favorites] [Home] [Stop] [Refresh] [Search] [Favorites] [History] [Channels] [Fullscreen] [Mail] [Print] [Edit]

Figure 9

402

Disease Management Systems - RX Communications - Microsoft Internet Explorer

File Edit View Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen E-mail Print Help Edit

Address: http://development.diseasemanagementsys.com/ Links

+ Disease Management Systems

Patient RxWorkSheet Med Order Adverse Drug Events

Patient List { 516 **Diagnoses** 808

Dr. [234] NAME: Kapp, Thomas I CPT CODE: 250.90 START DATE (DD/MM/YY): 03/13/2000 END DATE (DD/MM/YY): End

CONDITION: DIABETES MELLITUS 250.90 U3/13/2000 (TKAPP) 800

Click To Add Diagnoses

{ 504 **Drug Interactions** 512 **Contraindications** 514

Done Internet zone

Figure 10

804

Disease Management Systems - RX Communications - Microsoft Internet Explorer

Sort

Diagnoses
Enter text to search

Add Diagnoses
CLICK ON CONDITION TO ADD

D: 333 NAME: Baloo, Wally G. CURRENT SEARCHES

ICD9 Diagnoses:

- 810 D: 392.0 ABDOMINAL ACTINOMYCOSIS
- 806 D: 392.2 ABDOMINAL ACTINOMYCOSIS
- D: 392.3 ABDOMINAL ACTINOMYCOSIS
- D: 694 ABDOMINAL HYSTERECTOMY
- D: 664 ABDOMINAL HYSTERECTOMY: SURGICAL PROPHYLACTIC
- D: 689.00 ABDOMINAL PAIN: CRAMP BY DEFINITION
- D: 689.30 ABDOMINAL SWELLING
- D: 689.67 ABDOMINAL TENDERNESS: GENERALIZED
- D: 689.61 ABDOMINAL TENDERNESS: UPPER RIGHT QUADRANT
- D: 795.4 ABNORMAL CLINICAL FINDINGS
- D: 790.2 ABNORMAL GLUCOSE TOLERANCE TEST
- D: 785.0 NONSPECIFIC VAGINAL DISCHARGE
- D: 795.4 ABNORMAL UREESE: BREATH TEST
- D: 826.8 ABNORMAL UTERINE BLEEDING: SECONDARY TO HORMONAL

Address: http://development.diseasemanagementsys.com/

Figure 11

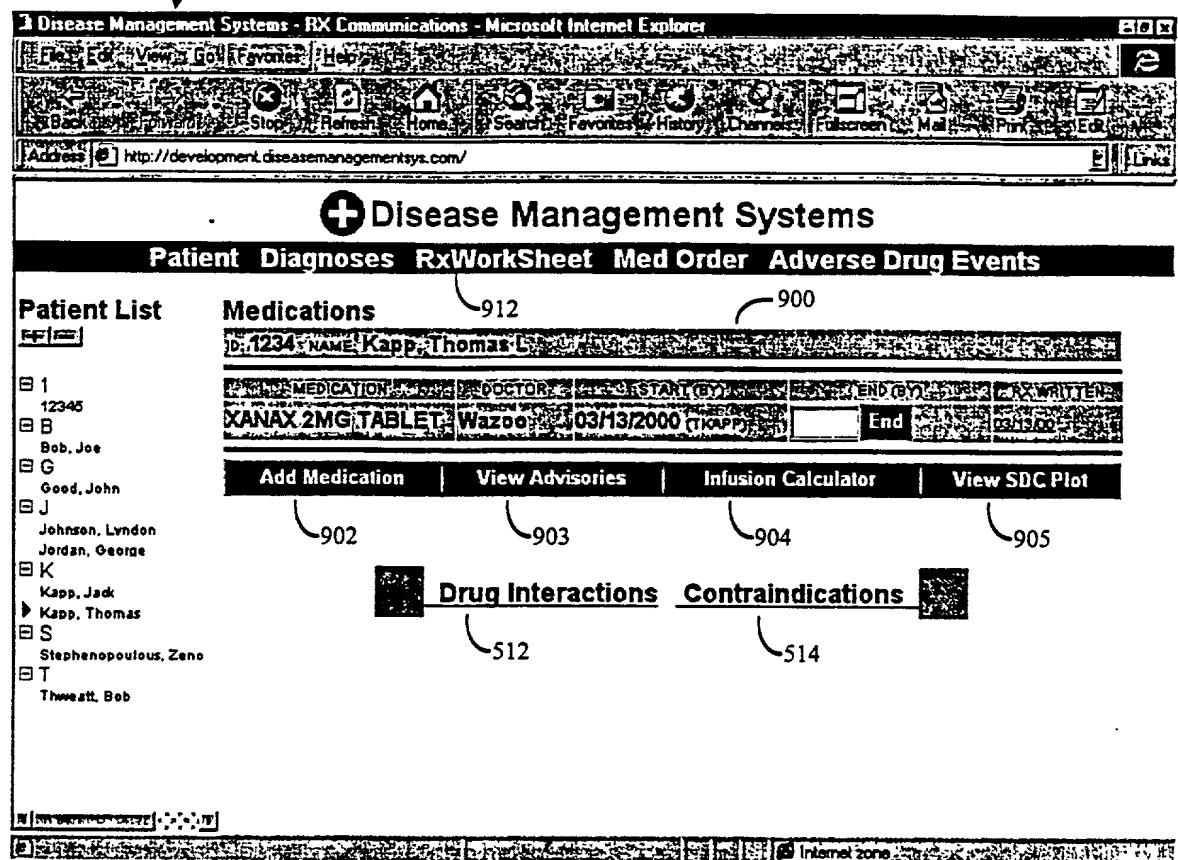


Figure 12

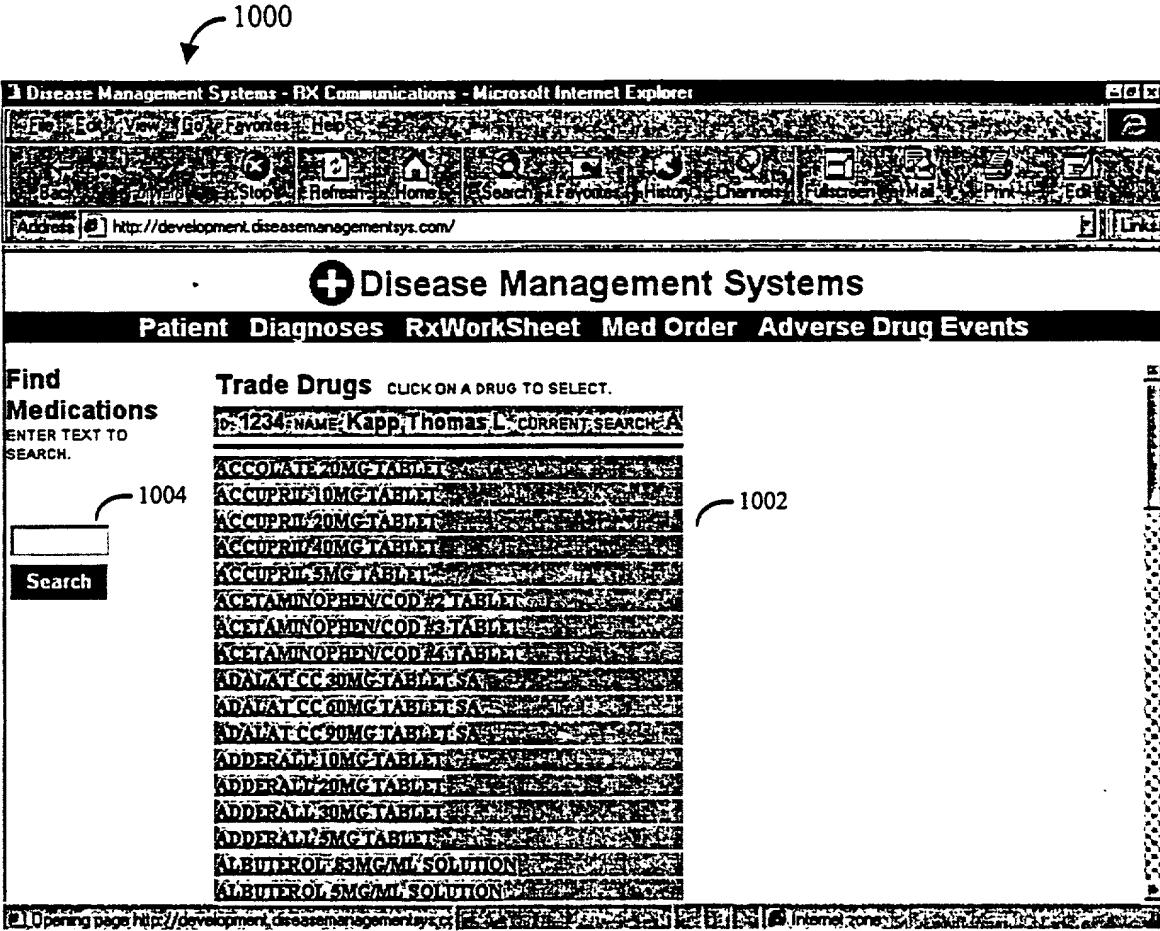


Figure 13

906

Disease Management Systems

Patient Diagnoses RxWorkSheet Med Order Adverse Drug Events

Patient List

Medication Advisories

NAME: Baloo, Wally G.

908 {

ACETAMINOPHEN 500MG TABLET

- SEEK IMMEDIATE HELP IF OVERDOSE IS SUSPECTED
- USE EXACTLY AS DIRECTED BY DOCTOR
- MAY CAUSE DROWSINESS; CAUTION OPERATING MACHINERY OR DRIVING
- CHECK WITH DOCTOR BEFORE INCREASING DOSE
- MAY BE HABIT FORMING
- AVOID OTHER CNS DEPRESSANTS
- REDUCE OR AVOID ALCOHOL CONSUMPTION
- DO NOT USE MORE OFTEN THAN RECOMMENDED BY DOCTOR

910 {

AMOXICILLIN 125MG/5ML SUSP

- MUST COMPLETE FULL COURSE OF THERAPY
- SPACE DOSES EVENLY
- FALSE POSITIVES WITH CUSO4 URINE GLUCOSE TEST
- DO NOT USE IF ALLERGIC TO PENICILLINS
- MAY REDUCE EFFECTIVENESS OF ORAL BC'S
- CALL DOCTOR IF SEVERE DIARRHEA OCCURS

Figure 14

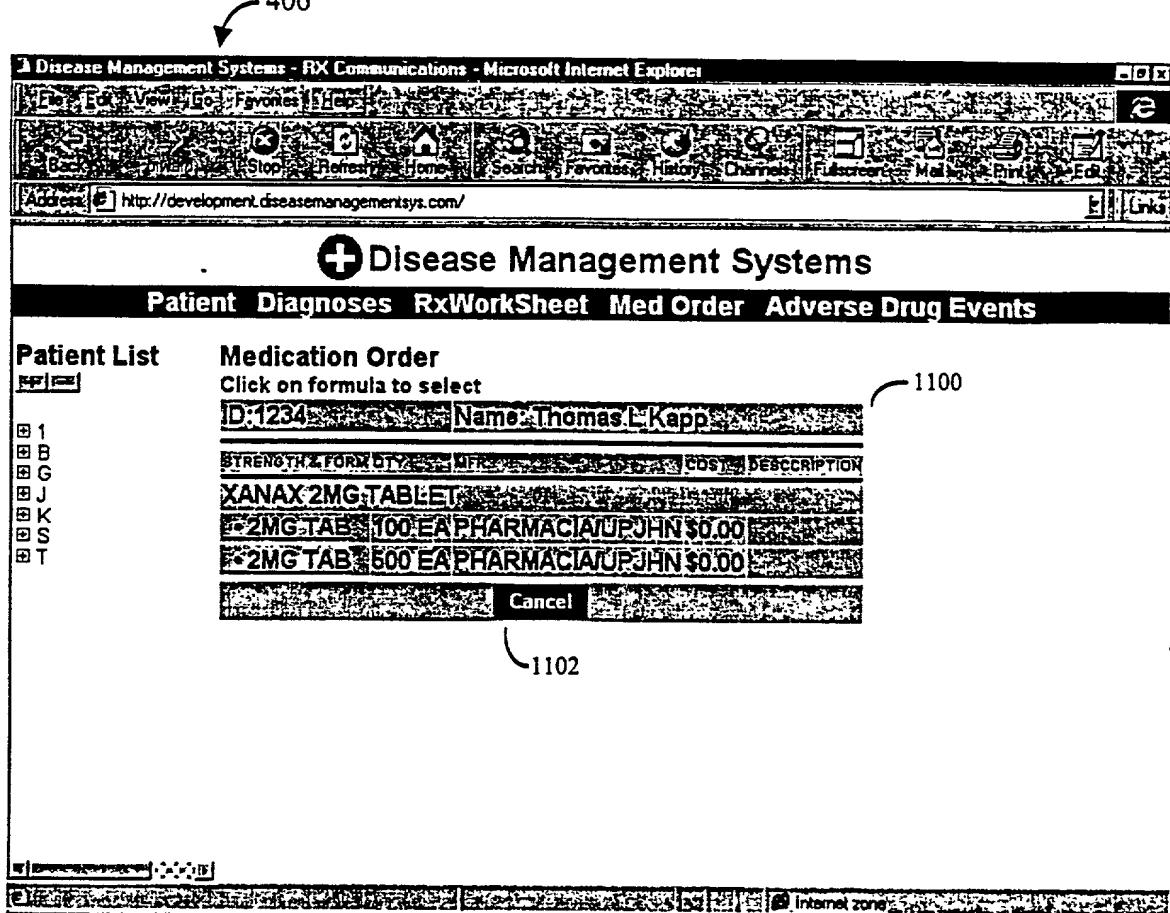


Figure 15

1108

Disease Management Systems - RX Communications - Microsoft Internet Explorer

File Edit View Go Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Help Links

Address http://development.diseasemanagementsys.com/

+ Disease Management Systems

Patient Diagnoses RxWorkSheet Med Order Adverse Drug Events

Medication Order

ID: 333 NAME: Wally Baloo
PRESCRIBING DOCTOR: Jones
DRUG: 00093035001 ACETAMINOPHEN/COD #4 TABLET
STRENGTH: 60-300MG TAB QUANTITY: 100 EA (TAB)
DIRECTIONS: DIRECTION
Save Order Cancel

1104 { 1110

Short Hand Notations

	And	gr	Grain	pm	Afternoon, evening
ac	Before meals	gtt	A drop	po	By mouth
ad	Right ear	gu		pm	When necessary
ad	To, up to	h	An hour	powd	A powder

1106 {

Figure 16

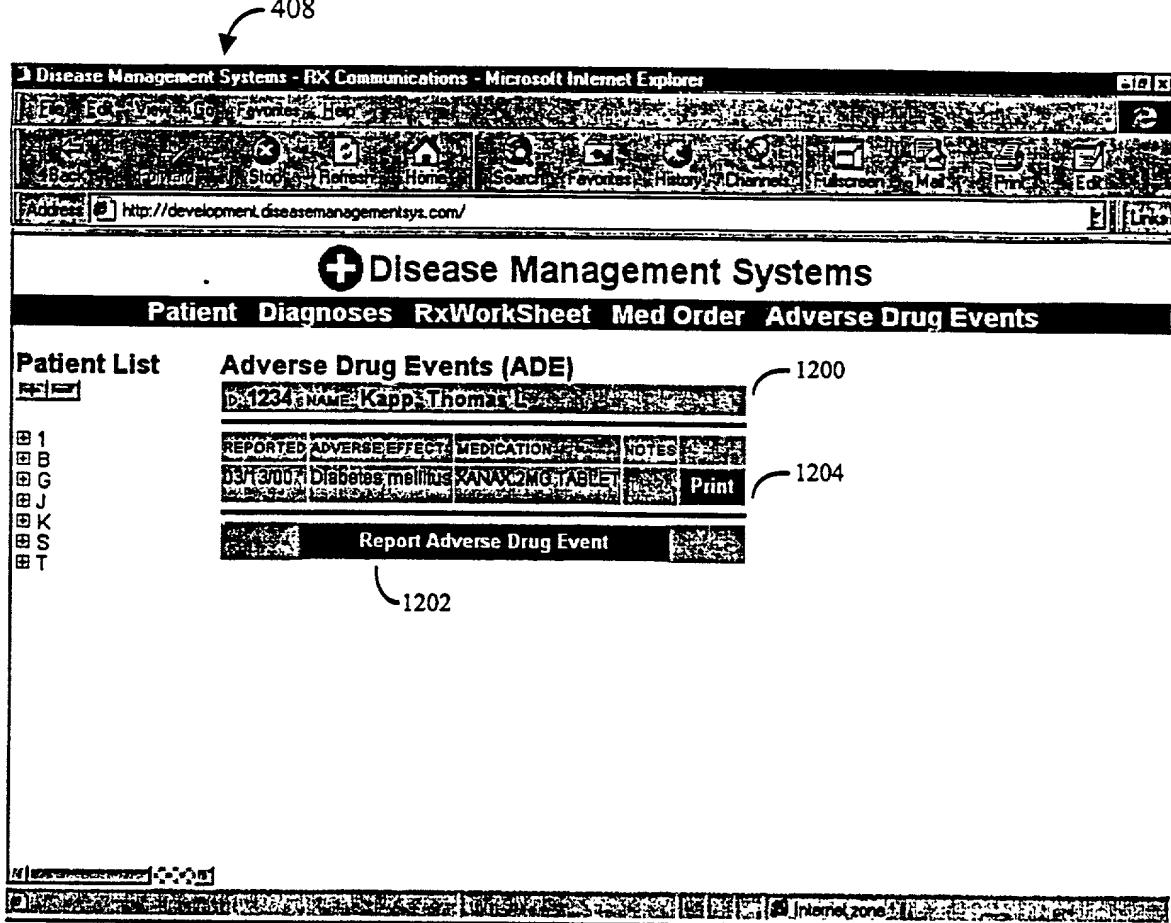


Figure 17

1300

Disease Management Systems - RX Communications - Microsoft Internet Explorer																																																	
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Forward	Stop/Back																																																
Search	Favorites																																																
Help	Channels																																																
Fullscreen	Monitor																																																
Print	Exit																																																
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| 1304 | 1306 |

Figure 18

1308

Disease Management Systems - RX Communications - Microsoft Internet Explorer

File Edit View Favorites Help

Back Forward Stop Refresh Home Search Favorites History Channels Fullscreen Mail Print Help Edit

Address http://development.diseasemanagementsys.com/

+ Disease Management Systems

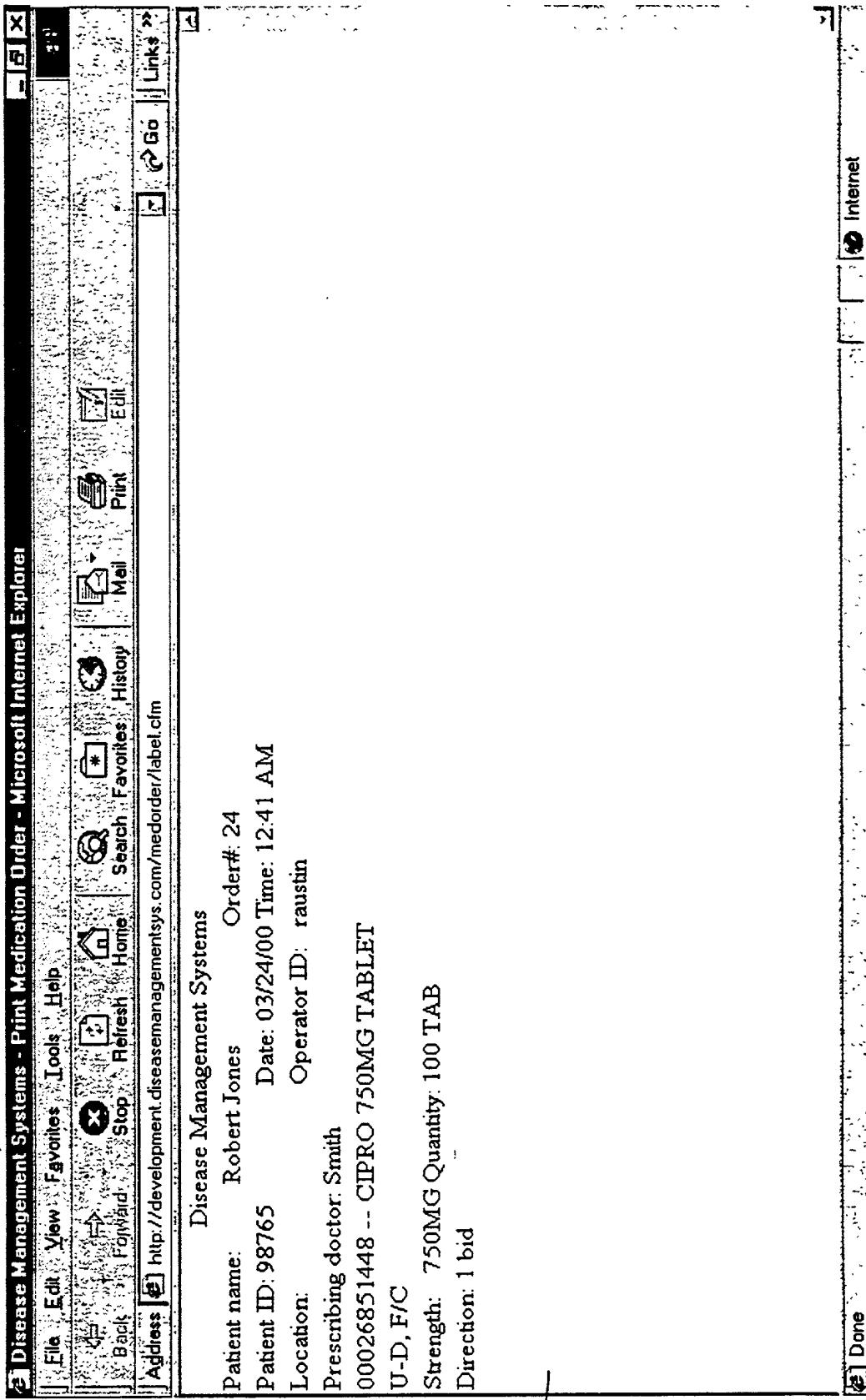
Patient Diagnoses RxWorkSheet Med Order Adverse Drug Events

1318	<input type="checkbox"/> HYPOTENSION	<input type="checkbox"/> PERIPHERAL EDEMA	<input type="checkbox"/> VASODILATION
1310	<input type="checkbox"/> HYPERTENSION	<input type="checkbox"/> FLUID RETENTION	<input type="checkbox"/> PERIPHERAL VASCULAR DISEASE
1312	If ADE is NOT NOTED ABOVE PLEASE DESCRIBE IT HERE		
1314	SEVERITY OF THE ADE	LIKELIHOOD THAT THE ADE IS DUE TO THE MEDICATION	1320
	<input checked="" type="radio"/> MILD	<input checked="" type="radio"/> HIGHLY LIKELY	
	<input type="radio"/> MODERATE	<input type="radio"/> PROBABLY	
	<input type="radio"/> SEVERE	<input type="radio"/> POSSIBLY	
	<input type="radio"/> FATAL	<input type="radio"/> NOT LIKELY	
1316	DUTY COMPLETED	ACTION TAKEN	1322
	<input checked="" type="radio"/> FULLY RECOVERED	<input checked="" type="radio"/> DRUG CONTINUED	
	<input type="radio"/> SOME RESIDUAL SEQUELAE	<input type="radio"/> DRUG DOSAGE ALTERED	
	<input type="radio"/> PERMANENT SEQUELAE	<input type="radio"/> DRUG DISCONTINUED	

Figure 19

Figure 20

2000



2002

Figure 21

2004

Warning! - Contraindications & Drug Interactions - Microsoft Internet Explorer

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Patient: 98765 - Jones, Robert
Geriatric Patient: (Age: 68 years)

Start Setup ----- Allergy Section Direct Match Allergen specific Allergy Cross No Allergy Found Direct Match Allergen specific Allergy Cross No Allergy Found Direct Match Allergen specific Allergy Cross No Allergy Found **DRUG**

INTERACTIONS

- **Drug Interaction: ERY-TAB 500MG TABLET EC / LANOXIN 125MCG TABLET**

MONOGRAPH TITLE: Digoxin, Oral/Macrolide Antibiotics

SEVERITY LEVEL: 3-Moderate Interaction: Assess the risk to the patient and take action as needed.

MECHANISM OF ACTION: Erythromycin may alter the bacterial flora in the GI tract, increasing the bioavailability of digoxin.

CLINICAL EFFECTS: Digoxin serum levels may be elevated, producing increased therapeutic and adverse effects. A two fold increase in steady state digoxin level has been shown. (1) At least one case report has been documented of the erythromycin-digoxin interaction with toxicity evidenced by slow atrial fibrillation, right bundle branch block, and ventricular bigeminy. (2) The effects of erythromycin on the GI flora may persist for several months.

PREDISPOSING FACTORS: None determined.

PATIENT MANAGEMENT: Monitor digoxin serum levels during concurrent erythromycin therapy and adjust the dose as needed.

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Figure 22

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DISCUSSION: Approximately 10% of the patients receiving digoxin excrete significant amounts of inactive digoxin metabolites. (3) Since bacterial flora in the GI tract are involved with the conversion of cardioactive digoxin to the inactive metabolite, administration of erythromycin as well as other antibiotics may alter the bacterial flora, interfering with the conversion process. These 10% of the patients are at risk of elevated digoxin levels due to the drug interaction. The increase in serum levels is greatest with those digoxin products with the lowest bioavailability and may not be clinically significant in patients taking digoxin elixir.

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2.Doherty J E. A digoxin-antibiotic drug interaction. N Engl J Med 1981 Oct; 305(14):827-8. 4.Rund D G,Lindenbaum J,Dobkin J F,Butler V P Jr,Saha J R. Decreased digoxin cardioinactive-reduced metabolites after administration as an encapsulated liquid concentrate. Clin Pharmacol Ther 1983 Dec;34(6):738-43. 3.Friedman H S,Bonventre M V. Erythromycin-induced digoxin toxicity letter Chest 1982 Aug;82(2):202. 5.Norregaard-Hansen K,Klitgaard N A,Pedersen K E. The significance of the enterohepatic circulation on the metabolism of digoxin in patients with the ability of intestinal conversion of the drug. Acta Med Scand 1986; 220(1):89-92.

6.Maxwell D L,Gilmour-White S K,Hall M R. Digoxin toxicity due to interaction of erythromycin. BMJ 1989 Mar;298(6673):572. 1.Lindenbaum J,Rund D G,Butler V P Jr,Tse-Eng D,Saha J R. Inactivation of digoxin by the gut flora: reversal by antibiotic therapy. N Engl J Med 1981 Oct;305(14):789-94.

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